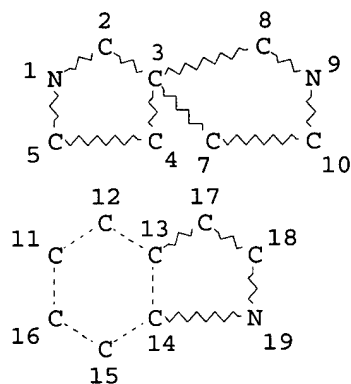


=> d 18  
 L8 HAS NO ANSWERS  
 L8 STR



NODE ATTRIBUTES:  
 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
 RSPEC 3 11  
 NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

=> s 18 ful  
 FULL SEARCH INITIATED 16:51:02 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 327 TO ITERATE

100.0% PROCESSED 327 ITERATIONS  
 SEARCH TIME: 00.00.01

1 ANSWERS

L10 1 SEA SSS FUL L8

=> fil caplus  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
300.38	300.80

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FILE COVERS 1907 - 31 Mar 2003 VOL 138 ISS 14  
 FILE LAST UPDATED: 30 Mar 2003 (20030330/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 110

L11 1 L10

=> d bib abs hitstr

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS

AN 2001:893118 CAPLUS

DN 136:278913

TI Heterocycles through domino reactions with trimethyl aconitate, a versatile synthetic building block

AU Witthaut, Daniel; Frohlich, Roland; Schafer, Hans J.

CS Organisch-chemisches Institut der Universitat, Munster, 48149, Germany

SO Angewandte Chemie, International Edition (2001), 40(22), 4212-4214

CODEN: ACIEF5; ISSN: 1433-7851

PB Wiley-VCH Verlag GmbH

DT Journal

LA English

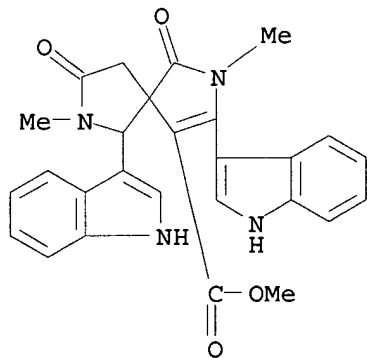
AB Heterocyclic compds. were prepd. from 1-propene-1,2,3-tricarboxylic acid tri-Me ester (tri-Me aconitate) and imines. Imines used in this study included N-(phenylmethylene)benzenemethanamine, N-(naphthalenylmethylene)benzenemethanamine, 2-[[[(phenylmethyl)imino]methyl]phenol, N-(phenylmethylene)-2-furanmethanamine, N-(phenylmethylene)methanamine and N-[(2-pyridinyl)methylene]methanamine. The domino reactions comprised an imine addn. and intramol. acylation. Crystal and mol. structures for many compds. thus prepd. were detd.

IT 406219-55-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. of heterocyclic compds. via domino reaction of  
1-propene-1,2,3-tricarboxylate with imines)

RN 406219-55-4 CAPLUS

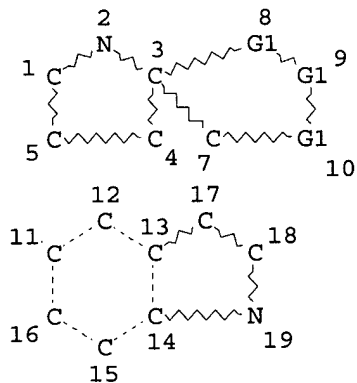
CN 2,7-Diazaspiro[4.4]non-3-ene-4-carboxylic acid, 3,6-di-1H-indol-3-yl-2,7-dimethyl-1,8-dioxo-, methyl ester (9CI) (CA INDEX NAME)



=> d l12

L12 HAS NO ANSWERS

L12 STR



VAR G1=C/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC 3 11

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

=> s l12 ful

FULL SEARCH INITIATED 16:52:45 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 23158 TO ITERATE

100.0% PROCESSED 23158 ITERATIONS

75 ANSWERS

SEARCH TIME: 00.00.01

L14 75 SEA SSS FUL L12

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
148.55	454.30

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.65

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FILE 'CAPLUS' ENTERED AT 16:52:50 ON 31 MAR 2003

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FILE COVERS 1907 - 31 Mar 2003 VOL 138 ISS 14  
FILE LAST UPDATED: 30 Mar 2003 (20030330/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

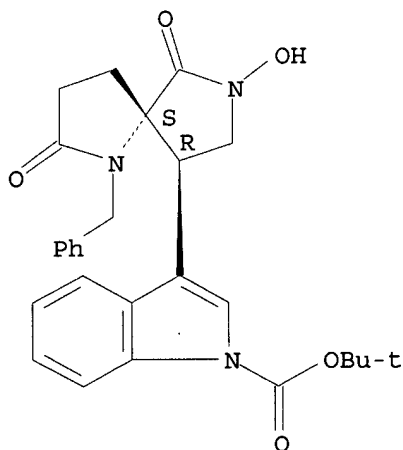
=> s l14

L15

52 L14

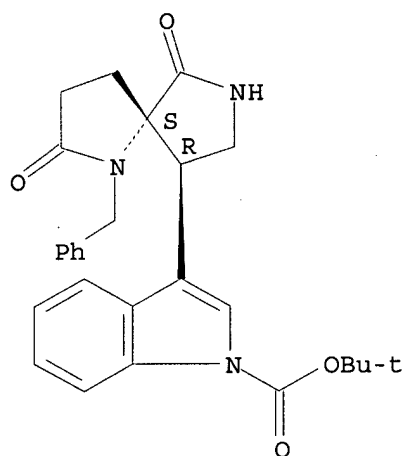
AN 2002:456531 CAPLUS  
 DN 137:279446  
 TI Chemoselective Michael reactions on pyroglutamates. Expeditionary synthesis of spiro-bis-.gamma.-lactams as .beta.-turn peptidomimetics  
 AU Brana, Miguel F.; Garranzo, Maria; de Pascual-Teresa, Beatriz; Perez-Castells, Javier; Torres, Maria Rosario  
 CS Departamento de Quimica Organica y Farmaceutica, Facultad de CC, Experimentales y de la Salud, Urb. Monteprincipe, Boadilla del Monte, Universidad San Pablo-CEU, Boadilla del Monte, Madrid, 28668, Spain  
 SO Tetrahedron (2002), 58(24), 4825-4836  
 CODEN: TETRAB; ISSN: 0040-4020  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English  
 AB Starting from pyroglutamic acid, the synthesis of spiro-bis-.gamma.-lactams, using as key step a chemoselective Michael reaction of pyroglutamates is reported. Thus, the reaction of N-BOC-L-Me pyroglutamate (BOC = tert-butoxycarbonyl) with LiHMDS gives the enolates at C4 which react with several Michael acceptors. On the other hand, N-benzyl-L-Me pyroglutamate reacts under the same conditions, to give the ester enolate which reacts with Michael acceptors leading to quaternized derivs. The synthesis of the bicyclic spirolactams results from a redn. of the nitro group present in these derivs. which directly gives the spiro compds. These final compds. may act as .beta.-turn mimetics, as they have torsion angles which are in the range of .beta.-turns of type II and II'.  
 IT 464201-05-6P 464201-09-0P 464201-17-0P  
 464201-21-6P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (synthesis of bicyclic spirolactams as .beta.-turn peptidomimetics via chemoselective Michael reaction of pyroglutamates)  
 RN 464201-05-6 CAPLUS  
 CN 1H-Indole-1-carboxylic acid, 3-[(5R,9S)-7-hydroxy-2,6-dioxo-1-(phenylmethyl)-1,7-diazaspiro[4.4]non-9-yl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 464201-09-0 CAPLUS  
 CN 1H-Indole-1-carboxylic acid, 3-[(5R,9S)-2,6-dioxo-1-(phenylmethyl)-1,7-diazaspiro[4.4]non-9-yl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

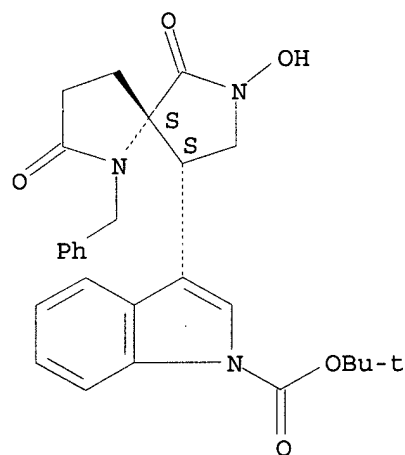
Relative stereochemistry.



RN 464201-17-0 CAPLUS

CN 1H-Indole-1-carboxylic acid, 3-[(5R,9R)-7-hydroxy-2,6-dioxo-1-(phenylmethyl)-1,7-diazaspiro[4.4]non-9-yl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

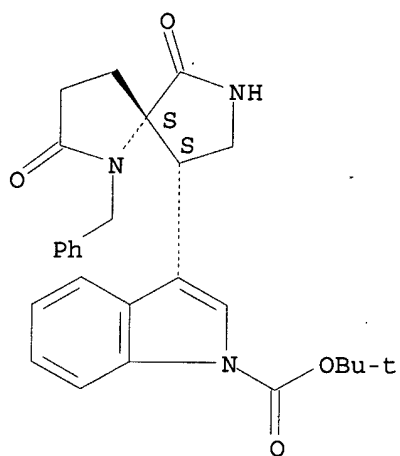
Relative stereochemistry.



RN 464201-21-6 CAPLUS

CN 1H-Indole-1-carboxylic acid, 3-[(5R,9R)-2,6-dioxo-1-(phenylmethyl)-1,7-diazaspiro[4.4]non-9-yl]-, 1,1-dimethylethyl ester, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RE.CNT 38      THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT